

Amendments to the Claims

1. (Previously Presented) A washing machine comprising:
an outer tub disposed in a casing for receiving washing water therein;
an inner tub rotatably disposed in the outer tub for receiving laundry therein; and
a plasma discharge unit for performing a plasma discharge on the washing water,
wherein the plasma discharge unit includes:
an inflow passage connected to the outer tub for introducing washing water inside the
outer tub;
a discharge box for receiving washing water introduced through the inflow passage and
having a space where a plasma discharge is performed;
an electrode disposed at the discharge box; and
a high voltage generator electrically connected to the electrode for applying a voltage to
the electrode.
2. (Canceled)
3. (Previously Presented) The washing machine of claim 1, wherein a filter for filtering
washing water is installed at the inflow passage.
4. (Previously Presented) The washing machine of claim 1, further comprising a
circulation unit for re-circulating washing water inside the discharge box into the outer tub.

5. (Original) The washing machine of claim 4, wherein the circulation unit includes:
a circulation duct of which one end is connected to the discharge box and another end is connected to the outer tub; and
a circulation pump disposed at the circulation duct for pumping washing water.
6. (Previously Presented) The washing machine of claim 1, further comprising a spray nozzle connected to the inflow passage and disposed in the discharge box, for expandably spraying washing water introduced through the inflow passage into the discharge box.
7. (Previously Presented) The washing machine of claim 1, wherein a dielectric particle for accelerating a plasma discharge is disposed in the discharge box.
8. (Previously Presented) The washing machine of claim 1, further comprising a catalyst for changing a pH level of washing water at the time of a plasma discharge in the discharge box.
9. (Previously Presented) The washing machine of claim 8, wherein at least one of γ - Al_2O_3 , TiO_2 , ZrO_3 , and glass pellet is used as the catalyst.
10. (Original) The washing machine of claim 8, wherein the catalyst is TiO_2 .
11. (Previously Presented) The washing machine of claim 1, further comprising a contamination degree sensor for detecting a contamination degree of washing water is disposed

in the outer tub.

12. (Previously Presented) The washing machine of claim 1, further comprising an air supply unit for supplying air into the discharge box.

13. (Previously Presented) The washing machine of claim 1, wherein the discharge box is divided into a first space and a second space, the electrode is composed of a first electrode disposed to be adjacent to the first space and a second electrode disposed to be adjacent to the second space, and a first catalyst for increasing a pH level of washing water at the time of a plasma discharge is disposed in the first space and a second catalyst for decreasing a pH level of washing water at the time of a plasma discharge is disposed in the second space.

14. (Original) The washing machine of claim 13, wherein at least one of $\gamma\text{-Al}_2\text{O}_3$, ZrO_3 , and glass pellet is used as the catalyst.

15. (Original) The washing machine of claim 13, wherein the second catalyst is TiO_2 .

16. (Original) The washing machine of claim 13, further comprising an air supply unit for supplying air into the discharge box.

17. (Original) The washing machine of claim 13, further comprising a circulation unit for re-circulating washing water inside the discharge box into the outer tub.

18. (Original) The washing machine of claim 17, wherein the circulation unit includes:
a circulation duct of which one end is connected to the discharge box and another end is
connected to the outer tub; and
a circulation pump connected to the circulation duct for pumping the washing water.

19. (Original) The washing machine of claim 13, wherein a dielectric particle for
accelerating a plasma discharge is disposed in the discharge box.

20. (Original) The washing machine of claim 13, wherein a filter for filtering washing
water is disposed at the inflow passage.

21. (Original) The washing machine of claim 13, further comprising a contamination
degree sensor for detecting a contamination degree of washing water in the outer tub.

22. (New) A washing machine comprising:
an outer tub disposed in a casing for receiving washing water therein;
an inner tub rotatably disposed in the outer tub for receiving laundry therein;
a plasma discharge unit for performing a plasma discharge on the washing water; and
a circulation unit for re-circulating washing water inside the plasma discharge unit into
the outer tub,

wherein the circulation unit includes: a circulation duct of which one end is connected to

the discharge box and another end is connected to the outer tub; and a circulation pump disposed at the circulation duct for pumping washing water.

23. (New) A washing machine comprising:

a casing;

an outer tub disposed in the casing for receiving washing water therein;

an inner tub rotatably disposed in the outer tub for receiving laundry therein; and

a plasma discharge unit for performing a plasma discharge on the washing water,
wherein the plasma discharge unit is disposed between the casing and the outer tub.

24. (New) The washing machine of claim 23, wherein the plasma discharge unit includes:

an inflow passage connected to the outer tub for introducing washing water inside the outer tub;

a discharge box for receiving washing water introduced through the inflow passage and having a space where a plasma discharge is performed;

an electrode disposed at the discharge box; and

a high voltage generator electrically connected to the electrode for applying a voltage to the electrode.

25. (New) The washing machine of claim 24, further comprising a circulation unit for re-circulating washing water inside the discharge box into the outer tub,

wherein the circulation unit includes: a circulation duct of which one end is connected to the discharge box and another end is connected to the outer tub; and a circulation pump disposed at the circulation duct for pumping washing water.